


## CURRICULUM VITAE

PERSONAL DETAILS		
(i)	Name	RINKI KESWANI
(ii)	Father's Name	BISHAM LAL KESWANI
(iii)	Mother's Name	MONIKA KESWANI
(iv)	Date of Birth	17 /11/86
(v)	Address for Communication	15A, TRIVENI COLONY MAIN , OPPOSITE SIX BUNGLOWS,INDORE 452012
(vi)	Permanent Address	15A, TRIVENI COLONY MAIN , OPPOSITE SIX BUNGLOWS,INDORE 452012
(vii)	Contact Details	+91-8989504914
(viii)	Nationality	INDIAN



2. EDUCATIONAL QUALIFICATIONS				
S. No	Degree/ Specialization	Year	University/Institute	Division/ Percentage /CGPA
(i)	PhD /Electrical Engineering	2018 Registered	RGPV, Bhopal /SGSITS, Indore	Pursuing 6 <sup>th</sup> Sem
(ii)	ME / POWER ELECTRONICS	2011	SGSITS, INDORE	FIRST(HONS.)/8.03
(iii)	BE/ ELECTRICAL AND ELECTRONICS	2008	RGTU BHOPAL/IPS INDORE	FIRST(HONS.)/75.75
(iv)	HIGHER SECONDARY	2004	CBSE/EMERALD HEIGHTS INTERNATIONAL SCHOOL, INDORE	FIRST/79.40
(v)	HIGH SCHOOL	2002	CBSE/EMERALD HEIGHTS INTERNATIONAL SCHOOL, INDORE	FIRST/83.80

**GATE Qualified : Qualified Gate 2013.**

**M.E. Dissertation title:**  
Vector Control of Induction Motor with Online Resistance Estimation using Luenberger Sliding Mode Observer.

**B.E. Projects:**  
**Major :**Energy Audit of Eicher Engineering Components, Dewas.  
**Minor:** Water Level Controller (Design and Application).

<b>3.</b>	<b>PRESENT POSITION HELD</b>	ASSISTANT PROFESSOR (Contract Faculty)
<b>4.</b>	<b>CAREER HISTORY AND PROFILE OF WORK EXPERIENCE</b>	
<b>(a)</b>	<b>Academic /Teaching Experience and subjects taught</b>	
(i)	Joined SGSITS, Indore as Assistant Professor on 23 <sup>rd</sup> July 2016 in Electrical engineering department and taught the following subjects:	
	<ol style="list-style-type: none"> <li>1. Instrumentation(Theory and Laboratory)</li> <li>2. Network Theory (Theory and Laboratory)</li> <li>3. Control System (Theory and Laboratory)</li> <li>4. Designing with Micro Systems (Theory and Laboratory)</li> <li>5. Hybrid Energy Systems(Theory and Laboratory)</li> <li>6. Utilization of Electrical Energy(Theory and Laboratory)</li> <li>7. Reliability Engineering(Theory)</li> <li>8. DSP (Laboratory)</li> <li>9. Network Analysis(Laboratory)</li> <li>10. Fundamentals of Electrical Engineering(Laboratory)</li> <li>11. Electrical Measurement &amp; Measuring Instruments (Laboratory)</li> <li>12. Power Electronics I(Laboratory)</li> <li>13. Microprocessor and Operating System(Laboratory)</li> </ol>	
<b>(b)</b>	<b>Other Curricular and Co Curricular Activities</b>	
(i)	Coordinated Criterion 2 in PG NBA.	
(ii)	Organized and visited Locomotive Shed and Railway Station, Indore for BE Third year students of Electrical Engineering.	
(iii)	Worked as Faculty Cordinator in Aayam 2017 representing Electrical Department.	
(iv)	Worked as NBA coordinator for Pre-Qualifier format and Compliance Report format.	
(v)	Worked as faculty coordinator for developing projects beyond syllabus in Control System and Design with Microcontroller Laboratory.	
<b>(c)</b>	<b>Academic Contributions</b>	
<b>(i)</b>	<b>Experiment added</b>	
	<b>1. DSP kit Projects (10 Experiments)</b>	
	<b>2. EMMI:</b> To study the construction of electro dynamometer type power factor meter and measure power factor for different types of loads.	
	<b>3. Instrumentation :</b>	
	<ol style="list-style-type: none"> <li>i. Voltage – Current characteristics of LDR.</li> <li>ii. Speed measurement using magnetic Pick up Inductive sensor.</li> <li>iii. Determination of Unknown Weights using Strain Guage.</li> </ol>	
	<b>4. Designing With Micro System (10 Experiments)</b>	
	<b>5. Artificial Neural Network (7 Experiments)</b>	
<b>(ii)</b>	<b>Hardware Projects Undertaken</b>	
	1. Supervised four groups of 2 <sup>nd</sup> year students of electrical engineering branch for hardware project implementation under the course Electrical workshop -II. The title of the project are:	

	<p><b>a) RF Controlled Home Automation System</b>  <b>b) Cell Phone Detector</b>  <b>c) Smart Switch board</b>  <b>d)Automatic Fire extinguishing Robot</b></p> <p>2. Supervised one group for UG Dissertation Guidance:  <b>a) Automatic Star to Delta Starter</b></p>
<b>(d)</b>	<b>Technical Papers Publications</b>
<b>(i)</b>	<b>International and National Journals and Conferences</b>
<b>S. No.</b>	<b>Title</b>
1	Rinki Keswani , Dr. H.K.Verma , Dr. Shailendra Kumar Sharma , “Optimal power flow integrating renewable energy sources in Microgrid employing Hybrid Grey wolf - Equilibrium Optimizer” , IEEE IAS Global Conference on Emerging Technologies (GlobConET-2022), India.
2	Ritu Saxena, H. K. Verma, Arun Parakh and Rinki Rajpal, "Harmonic reduction of multilevel inverters by using soft computing techniques: a review", SCRS Conference Proceedings On Intelligent Systems, SCRS, India, 2021, pp. 415-430. <a href="https://doi.org/10.52458/978-93-91842-08-6-40">https://doi.org/10.52458/978-93-91842-08-6-40</a> .
3	Ritu Saxena, H. K. Verma, Arun Parakh and Rinki Rajpal, " Selective Harmonic Elimination of Voltage Source Inverter for Renewable Energy Sources Using Hybrid Salp Swarm-Sine Cosine Algorithm,IJAREEIE,vol. 10, no.12,pp. 7667-7676, Dec. 2021.
4	Rinki Keswani , Dr. H.K.Verma , Dr. Shailendra Kumar Sharma , “Dynamic Economic Load Dispatch incorporating Renewable Energy Sources using Multiswarm Statistical Particle Swarm Optimization” , GUCON 2020 (IEEE International Conference on Computing, Power and Communication Technologies), Noida, India.
5	Rinki Keswani , Dr. H. K. Verma, Dr. Shailendra Kumar Sharma , “ <i>Day ahead optimal economic dispatch with solar energy integration using PSO</i> ” IJRAR June 2019, Volume 6, Issue 2 <a href="http://www.ijrar.org">www.ijrar.org</a> (E-ISSN 2348-1269, P- ISSN 2349-5138).
6	Ritu Verma and Rinki Keswani. " <i>A Robust Sliding Mode Control with Different types of Inputs Applicable in Wheel-Slip Control for Vehicle Motion</i> ", Journal of Electrical and Power System Engineering vol.4, no.2, 2018.
7	Rinki Keswani , Ritu Verma, “Sensor less Luenberger Observer Based Sliding Mode Control of DC Motor” , IRJET journal Volume 4 Issue 1 January 2017, e-ISSN :2395-0056 , p-ISSN : 2395-0072 , AN ISO 9007:2008 Certified Journal.
8	P Singhai , S Gupta , R Keswani, “ Optimization of PV output for centrifugal pumping system Operated by Induction motor ” , International Journal of Advanced Scientific and Technical Research in Issue 5 volume 4, July-August 2015 edition, ISSN 2249-9954.

9	R.Keswani ,P. Singhai, “Design of Sliding Mode Controller for DC Motor and its Comparison with Various Other Controllers ” , International Journal of Advanced Scientific and Technical Research Issue 4 volume 3, May-June 2014 ISSN 2249-9954.
10	R. Keswani, “Alternative methods of controlling DC Motor using conventional PID controller and a novel sliding mode controller ”, National Conference on Recent trends in Electronics and Electrical Engineering ,2011.
11	R. Keswani , "Neural Network Adaptive Prediction and Noise Reduction using ADALINE" ,IEEE National Conference on Recent Trends in Computational Intelligence 2011.

<b>Webinar Speaker at event</b>			
<b>S.no</b>	<b>Topic</b>	<b>Date</b>	<b>Organised by</b>
1	Optimization in Power System operation	1 July 2020	SGSITS,Indore
2	Optimal operation of Power System	21 Dec 2020	COEP Pune, Sgsits,Indore and Manipur Technical University, Imphal in Research Scholar’s Conclave 2020

<b>List of Seminars / Workshops/Summer/Winter Courses Attended</b>			
<b>S. No.</b>	<b>Details of Course</b>	<b>Duration</b>	<b>Organized by</b>
1	Seminar on Recent Advances in Signal Processing.	21 April 2012	CDGI,CDSE,Indore
2	Two week short term course on Signals and Systems	02 -12 Jan, 2014	National Mission on Education, (MHRD, Govt. of India) & IIT KHG at CDGI, Indore
3	Mission 10x	13-15 October, 2014	Wipro Technology
4	Two week short term course on Control Systems	02 -12 Dec, 2014	National Mission on Education, (MHRD, Govt. of India) &

			IIT KHG at CDGI, Indore
5	Vendor's training program under SMDP-C2SD project on Mentor Graphics EDA Tools	26th-29th December, 2016	(MP DEITY, Govt. of India and Dept, E & I, Shri G. S. Institute of Tech. And Sc. , Indore)
6	CMOS, Mixed Signal and Radio frequency VLSI Design	30 Jan to 4 Feb 2017.	National Mission on Education, (MHRD, Govt. of India) & IIT KHG at SGSITS, Indore
7	Advances in Power Electronics for sustainable development	25-26 March 2017	SGSITS,EED
8	Two week short term course on Electric Power System	10-15 July 2017	National Mission on Education, (MHRD, Govt. of India) & IIT KHG at SGSITS, Indore
9	Design of Photovoltaic Systems : From Devices Towards System	16-18 Dec 2019	IIT, Indore under TEQIP III

<b>List of Workshops Organised</b>			
<b>S. No.</b>	<b>Details of Course</b>	<b>Duration</b>	<b>Organized by</b>
1	Wind Energy Conversion Systems : Theory , Practices , Operation and Control	19-23 Dec 2016	National Mission on Education, (MHRD, Govt. of India) under Gian initiative.
2	Power Electronics Applications in Apparatus Industry	10-11 Dec 2017	TEQIP Phase III , EED, SGSITS,Indore.
3	Scope & Effects of Renewable Energy sources for demand side energy management.	24-25 March 2018	TEQIP Phase III , EED, SGSITS,Indore.

<b>List of Certification Courses</b>			
<b>S. No.</b>	<b>Details of Course</b>	<b>Duration</b>	<b>Organized by</b>
1	Basic Electric Circuits	July – Oct 2019 (12 Weeks)	NPTEL
2	Digital Transformation in Teaching Learning Process	14 Feb – 6 Mrch (2 Weeks)	TEQIP Phase III , NPIU

<b>List of Online Webinar / FDP Courses Attended</b>			
<b>S. No.</b>	<b>Details of Course</b>	<b>Duration</b>	<b>Organized by</b>
1	Modeling Stray Losses in an Induction Machine	29 May 2020	ANSYS Solutions
2	Smart battery energy management	2 June 2020	PELS
3	Recent Strategies for Optimisation of High and Low Power Applications	6 May 2020	IEEE Bangalore WIE
4	LaTeX Faculty Development Program(FDP)	30-31 May 2020	DAVV, Indore in association with Spoken Tutorial Program, IIT Bombay
5	FDP on Recent Trends in Power System	22-26 June 2020	SIT, Ichalkaranji
6	Power Quality and Reactive Power Management	1-5 June 2020	SIT, Ichalkaranji
7	Use of online resources in teaching – learning process	20 May 2020	UTU , Bardoli
8	Harnessing Solar Energy for reducing Carbon Footprint FDP	16-20 June 2020	SSTC , Bhilai in association with IEEE and Institution of Engineers(India)
9	Effective Role of Teachers in Enhancing Standards of Technical Education	06 June 2020	GIST, Nellore in association with Institution of Engineers(India)

<b>List of Webinars/ Online FDP Organised</b>			
<b>S. No.</b>	<b>Details of Course</b>	<b>Duration</b>	<b>Organized by</b>
1	Assessment of Electrical Vehicle By Big Data	9 June 2020	EED , SGSITS , Indore
2	Research Opportunities in Power Electronics	10 June 2020	EED , SGSITS , Indore
3	Accreditation: A Continuous Process: "Let's make it more effective"	11 June 2020	EED , SGSITS , Indore
4	A Perspective on Performnce , Power and Energy Efficiency of GPUs	12 June 2020	EED , SGSITS , Indore
5	Electrical Vehicle Technology : Developments and Opportunities	13 June 2020	EED , SGSITS , Indore
6	Enhancement of Consultancy and Testing in Institute	14 June 2020	EED , SGSITS , Indore
7	Real Time Hardware-in-the-Loop (HIL) Simulation for Power Electronics & Power Systems (FDP)	28-30 June 2020	EED , SGSITS , Indore
8	Recent Trends in Electrical Engineering	1-2 July 2020	EED , SGSITS , Indore